

Galleon G1 microNAS

High Performance Network Attached Storage

The Galleon G1 microNAS offers superior performance in an ultra small form factor. Removable storage ensures short ground times for airborne applications. Industry standard solid-state drives are used to benefit from the ever increasing storage densities and cost reductions as the technology evolves.

The Galleon G1 microNAS is capable of handling a high number of simultaneous connections without compromising system performance. Four channels of Gigabit Ethernet connections are available for multi-channel high bandwidth applications.

The unit can be delivered with Windows Embedded Storage Server or Linux Enterprise Server preconfigured to suit your application needs.

The G1 Removable Data Module, can be equipped with an AES 256-bit hardware encryption module that provides a high level of data security.

Galleon Embedded Computing's quality management system is certified to Aerospace Standard AS/EN 9100:2016 and ISO 9001:2015.

Ultra Small Rugged NAS



KEY FEATURES

- Quad Gigabit Ethernet ports
- SMB/CIFS, NFS, AFP, FTP, HTTP and rsync
- RAID 0 and 1 support
- GPS unit for date and time synchronization
- Up to 20TB SLC or 40TB MLC removable solid-state storage
- 12V-48V DC power
- Rugged conduction or air cooled designs
- Windows or Linux
- Tested to:
 - MIL-STD-810
 - MIL-STD-461
 - MIL-STD-704

APPLICATIONS

- UAVs, UGVs
- Surveillance
- Flight management
- Map systems
- Cockpit information systems
- Data loader systems
- Airborne servers

BENEFITS

- SWaP optimized
- High performance
- Flexible and scalable
- Rugged design
- Ultra lightweight
- Low power
- High bandwidth

TECHNICAL SPECIFICATION



Rear Panel Recording Interfaces

- 4x 1000BASE-T Gigabit Ethernet
- 1x VGA
- 2x USB2.0
- 2x RS232
- 1x Power
- 1x GPS antenna input option

Storage

- Up to 40TB removable MLC FLASH
- Up to 20TB removable SLC FLASH

Monitoring

- SMART
- SNMP
- Syslog

Front Panel Interfaces

- Removable storage bay

I/O Expansion

- MiniPCI Express expansion site

File System

- Linux and Windows support
- JBOD, RAID 0, RAID 1 support
- Supported file systems: EXT4, UFS, FAT, NTFS
- Exported file systems: SMB/CIFS, NFS, AFP, FTP, HTTP and rsync

Operating Temperature

- 0°C to +50°C standard temp.
- -40°C to +71/75°C extended temperature (AC/CC)

Shock and Vibration

- Tested to MIL-STD-810

EMI/RFI

- Tested to MIL-STD-461

Altitude

- -1500 to 40 000 ft (AC)*
- -1500 to 60 000 ft (CC)*

Humidity

- Up to 100%, condensing

Size, Weight & Power

- 83 x 63 x 185 mm/3.2 x 2.5 x 7.2"
- Conduction cooled and natural convection cooled
- Weight: < 1.2 kg/2.6 lb (incl storage)
- Power: 10W-35W (configuration dependent)

Power Supply

- 12V-48V DC (nominal)
- Tested to MIL-STD-704

* Contact factory for high altitude options

ABOUT GALLEON

Galleon Embedded Computing is an innovative leader in development of high-performance, high-quality storage solutions and small rugged data recorder systems, servers and NAS devices.

Galleon's offerings span from commercial grade products for benign environments to ruggedized conduction-cooled products for deployed systems in severe environments.

RELATED PRODUCTS

- Offload Systems
- G1 USB3 Docking station
- G1 Removable Data Module
- Galleon Extended Warranty and Support



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